

How to check if textfield is empty?

Asked 7 years, 10 months ago Modified 6 years, 4 months ago Viewed 88k times



for my JavaFx application I want to check if the TextFields are empty, and if so, alert the user. These are the TextFields:

11



```
VBox fields = new VBox();
Text usernametext = new Text("User name");
TextField user_name = new TextField();
Text firstnametext = new Text("First name");
TextField first_name = new TextField();
Text lastnametext = new Text("Last name");
TextField last_name = new TextField();
Text ibantext = new Text("IBAN");
TextField iban = new TextField();
Text passwordtext = new Text("Password");
TextField password = new TextField();
Text confirmpasstext = new Text("Confirm password");
TextField confirmpass = new TextField();
Button createBtn = new Button("Create account");
```

for now i just wanted to test the validation on one textfield. this is my validation function that is linked to the createBtn:

```
public void validation(){
    if(user_name.getText().trim().isEmpty()){
        Alert fail= new Alert(AlertType.INFORMATION);
        fail.setHeaderText("failure");
        fail.setContentText("you havent typed something");
        fail.showAndWait();
    } else {
        Alert alert = new Alert(AlertType.INFORMATION);
        alert.setHeaderText("Succes");
        alert.setContentText("Account succesfully created!");
        alert.showAndWait();
    }
}
```

But I get this error message as i press the 'Create Account' button:

Exception in thread "JavaFX Application Thread"

```
java.lang.NullPointerException
    at opdracht1.Opdracht1.validation(Opdracht1.java:36)
    at opdracht1.Opdracht1$2$1.handle(Opdracht1.java:103)
    at opdracht1.Opdracht1$2$1.handle(Opdracht1.java:98)
    at
    com.sun.javafx.event.CompositeEventHandler.dispatchBubblingEvent(CompositeEventHandl
    at
    com.sun.javafx.event.EventHandlerManager.dispatchBubblingEvent(EventHandlerManager.j
```

```

    at
com.sun.javafx.event.EventHandlerManager.dispatchBubblingEvent(EventHandlerManager.j
    at
com.sun.javafx.event.CompositeEventDispatcher.dispatchBubblingEvent(CompositeEventDi
    at
com.sun.javafx.event.BasicEventDispatcher.dispatchEvent(BasicEventDispatcher.java:58
    at
com.sun.javafx.event.EventDispatchChainImpl.dispatchEvent(EventDispatchChainImpl.jav
    at
com.sun.javafx.event.BasicEventDispatcher.dispatchEvent(BasicEventDispatcher.java:56
    at
com.sun.javafx.event.EventDispatchChainImpl.dispatchEvent(EventDispatchChainImpl.jav
    at
com.sun.javafx.event.BasicEventDispatcher.dispatchEvent(BasicEventDispatcher.java:56
    at
com.sun.javafx.event.EventDispatchChainImpl.dispatchEvent(EventDispatchChainImpl.jav
    at com.sun.javafx.event.EventUtil.fireEventImpl(EventUtil.java:74)
    at com.sun.javafx.event.EventUtil.fireEvent(EventUtil.java:49)
    at javafx.event.Event.fireEvent(Event.java:198)
    at javafx.scene.Node.fireEvent(Node.java:8411)
    at javafx.scene.control.Button.fire(Button.java:185)
    at
com.sun.javafx.scene.control.behavior.ButtonBehavior.mouseReleased(ButtonBehavior.ja
    at
com.sun.javafx.scene.control.skin.BehaviorSkinBase$1.handle(BehaviorSkinBase.java:96
    at
com.sun.javafx.scene.control.skin.BehaviorSkinBase$1.handle(BehaviorSkinBase.java:89
    at
com.sun.javafx.event.CompositeEventHandler$NormalEventHandlerRecord.handleBubblingEv
    at
com.sun.javafx.event.CompositeEventHandler.dispatchBubblingEvent(CompositeEventHandl
    at
com.sun.javafx.event.EventHandlerManager.dispatchBubblingEvent(EventHandlerManager.j
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    at
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com.sun.javafx.event.EventDispatchChainImpl.dispatchEvent(EventDispatchChainImpl.jav
    at
com.sun.javafx.event.BasicEventDispatcher.dispatchEvent(BasicEventDispatcher.java:56
    at
com.sun.javafx.event.EventDispatchChainImpl.dispatchEvent(EventDispatchChainImpl.jav
    at com.sun.javafx.event.EventUtil.fireEventImpl(EventUtil.java:74)
    at com.sun.javafx.event.EventUtil.fireEvent(EventUtil.java:54)
    at javafx.event.Event.fireEvent(Event.java:198)
    at javafx.scene.Scene$MouseHandler.process(Scene.java:3757)
    at javafx.scene.Scene$MouseHandler.access$1500(Scene.java:3485)
    at javafx.scene.Scene.impl_processMouseEvent(Scene.java:1762)
    at javafx.scene.Scene$ScenePeerListener.mouseEvent(Scene.java:2494)
    at
com.sun.javafx.tk.quantum.GlassViewEventHandler$MouseEventNotification.run(GlassView
    at
com.sun.javafx.tk.quantum.GlassViewEventHandler$MouseEventNotification.run(GlassView
    at java.security.AccessController.doPrivileged(Native Method)
    at

```

```

com.sun.javafx.tk.quantum.GlassViewEventHandler.lambda$handleMouseEvent$355(GlassViewE
at
com.sun.javafx.tk.quantum.QuantumToolkit.runWithoutRenderLock(QuantumToolkit.java:38
at
com.sun.javafx.tk.quantum.GlassViewEventHandler.handleMouseEvent(GlassViewEventHandl
at com.sun.glass.ui.View.handleMouseEvent(View.java:555)
at com.sun.glass.ui.View.notifyMouse(View.java:937)
at com.sun.glass.ui.win.WinApplication._runLoop(Native Method)
at
com.sun.glass.ui.win.WinApplication.lambda$null$149(WinApplication.java:191)
at java.lang.Thread.run(Thread.java:745)

```

Thanks in advance!

[javafx](#) [textfield](#)

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edited Sep 30, 2015 at 13:11

asked Sep 30, 2015 at 13:06



[ItachiUchiha](#)

36.1k 10 122 176



[Y_Lakdime](#)

815 2 15 33

Can you please say which line 36 of `Opdracht1.java` ? – [ItachiUchiha](#) Sep 30, 2015 at 13:11

@ItachiUchiha `if(user_name.getText().trim().isEmpty()){` – [Y_Lakdime](#) Sep 30, 2015 at 13:13

Then it is expected that the `user_name` is `null`. Check your code at where you may set it to `null`, or you may have multiple variables with the same name. – [Uluk Biy](#) Sep 30, 2015 at 14:01

a way to do this with regex `(!inputField.getText().matches(" {" + inputField.getText().length() + "});)` just as an extra info. – [GOXR3PLUS](#) Jul 8, 2016 at 23:04

6 Answers

Sorted by:

Highest score (default)



First of all, check if `user_name` is not **null**. If it is not, you are setting a **null** text value to the JavaFX component somewhere in your code.

20



```
if(user_name.getText().trim().isEmpty()){
```



In any case, applying the `trim()` to a **null** value is what causes your exception. You should not need this (see [Uluk Biy's](#) comment to this answer), but considering you created a `user_name` `TextField`, you must check first if the `getText()` method is not **null**.



Something like this should do the trick:

```
if (user_name.getText() == null || user_name.getText().trim().isEmpty()) {
    // your code here
}
```

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edited Sep 30, 2015 at 14:48

answered Sep 30, 2015 at 13:24



Alexander Ortiz

529 7 14

- 3 The `user_name.getText()` cannot be null because the default constructor of the `TextField` sets the initial text to "" (empty string). – [Uluk Biy](#) Sep 30, 2015 at 13:59

Absolutely right. However he must set a null value somewhere in the program; it's the only way to get a null pointer in the mentioned line. – [Alexander Ortiz](#) Sep 30, 2015 at 14:12

"" is set to text if the argument passed for `setText()` is null. so `getText()` ensured not to return null anyway. NPE occurs if `user_name` is also null for the given line. – [Uluk Biy](#) Sep 30, 2015 at 14:19

`user_name.setText(null); Assert.assertNotNull(user_name.getText());` Check this. It launches an *AssertionFailedError*, meaning the text returned by the method is null. I'm editing the answer, adding the possibility that `user_name` may also be null. – [Alexander Ortiz](#) Sep 30, 2015 at 14:31 ✎

- 1 You are right. It seems there is a flag to indicate the text nullness. But the actual value of text property sets to "". – [Uluk Biy](#) Sep 30, 2015 at 14:49



you can use `Button.disableProperty` to bind with `TextField`. when the textfield is empty, then the button will be disabled, else it will be enabled.

2

use code mentioned below



```
createBtn.disableProperty().bind(
    Bindings.createBooleanBinding( () ->
        user_name.getText().trim().isEmpty(), user_name.textProperty()
    )
    // If you want to check more text field, use it as by removing comments
    // .or( Bindings.createBooleanBinding(
    //     first_name.getText().trim().isEmpty(), first_name.textProperty()
    // )
    // )
);
```

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answered Oct 9, 2016 at 8:11



Pramod Kumar Sharma

540 6 17



Alright, this is how I did it and it works.

If in the event none of the above works, try the following:

2 Create a string variable, let's say String username; Next, try the following:



```
if(username.trim().isEmpty())
```



The original suggestion didn't work for me but creating the string did, so if the above suggestions did not work for you, give this a shot.

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edited Mar 12, 2017 at 4:10

answered Mar 12, 2017 at 2:46



Ben Hare

4,355 5 27 44



reece8765

21 2

I guess you mean `if(username.getText().trim().isEmpty())` – Ramesh Kumar May 4, 2018 at 13:58



This can be checked simply by

1

```
if(textField.getText().trim().equals(""))
{
    system.out.println("textField is empty");
}
```



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edited May 29, 2016 at 21:17

answered Jan 23, 2016 at 16:31



Shersha Fn

1,501 3 25 34



`textField.getText().trim().equals("")`

0

Above statement worked like a charm for me.



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answered Apr 6, 2017 at 10:46



AnkUser

5,401 2 9 25



While this code snippet may solve the question, [including an explanation](#) really helps to improve the quality of your post. Remember that you are answering the question for readers in the future, and those people might not know the reasons for your code suggestion. – Ferrmolina Apr 6, 2017 at 11:06



You can test this code replace the Name of my champs with the name of your TextFeild

-1



```
if ((nom_pt.getText().toString().compareTo("") == 0) ||  
    (prenom_pt.getText().toString().compareTo("") == 0) ||  
    (cin_pt.getText().toString().compareTo("") == 0) ||  
    (gsm_pt.getText().toString().compareTo("") == 0)) {  
  
    JOptionPane.showMessageDialog(null, "champs vide");  
  
} else {    JOptionPane.showMessageDialog(null, "Enregistrement a été ajouter");  
}
```

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edited Jul 8, 2016 at 12:44

answered Jul 8, 2016 at 11:52



[user2807083](#)

2,962 4 29 37



[AnouarLouardighi](#)

21 6

This question about [JavaFx](#) and not [Java Swing](#) – [Swapnil](#) Sep 23, 2019 at 14:42
